AMENDMENTS TO THE CLAIMS

Claim 1. (Currently Amended) ~~In a~~A nanochannel substance ~~in which~~wherein an oxide layer contains a surfactant micelle, comprising a nanochannel structure containing a functional molecule, wherein ~~a~~the functional molecule is contained in the nanochannel, and an inner wall of the nanochannel is hydrophobic.

Claim 2. (Currently Amended) The nanochannel ~~structure~~substance containing a functional molecule according to claim 1, wherein the oxide layer mainly comprises silicon oxide.

Claim 3. (Currently Amended) The nanochannel ~~structure~~substance containing a functional molecule according to claim 1, wherein the functional molecule is a chelate molecule.

Claim 4. (Cancelled)

Claim 5. (Currently Amended) The nanochannel ~~structure~~substance containing a functional molecule according to claim [[4]] 1, wherein the nanochannel substance contains an agent for making the nanochannel hydrophobic.

Claim 6. (Currently Amended) The nanochannel ~~structure~~substance containing a functional molecule according to claim [[5]] 2, wherein the nanochannel substance ~~in which the oxide layer mainly comprises silicon oxide~~ contains a silane coupling agent.

Claim 7. (Currently Amended) A nanochannel thin film containing a functional molecule wherein ~~the~~a nanochannel structure is arranged in a form of a thin film on a solid substrate.

Claim 8. (Currently Amended) The nanochannel thin film containing a nanochannel structure containing a functional molecule according to claim 7, wherein the nanochannel is sedimented in ~~many~~multiple layers on a solid substrate in a three-dimensional manner.

Claim 9. (Currently Amended) A method for the manufacture of a nanochannel ~~structure~~substance containing a functional molecule, ~~wherein~~comprising:

forming a nanochannel substance, ~~where~~wherein an oxide layer contains a surfactant micelle, ~~is formed~~ from an acidic aqueous solution of alcohol containing a surfactant, a hydrophobically treating agent, and an alkoxide compound which is able to form an oxide,

and then impregnating a functional molecule ~~is impregnated~~ in the nanochannel substance.

Claim 10. (Cancelled)

Claim 11. (Currently Amended) The method for the manufacture of a nanochannel ~~structure~~substance containing a functional molecule according to claim ~~10~~9, wherein heating or drying is conducted on a solid substrate to form a nanochannel substance on its surface, and then impregnating a functional molecule ~~is impregnated~~ in the nanochannel substance.